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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/538,543	03/30/2000	Edward A. Hubbard	BAY3:002	8287
75	90 07/02/2004	EXAMINER		
KELLY K. KO		COULTER, KENNETH R		
WINSTEAD SE POST OFFICE	ECHREST & MINICK P.O BOX 50784	ART UNIT	PAPER NUMBER	
1201 MAIN ST		2141	1/(	
DALLAS, TX	75250-0784	DATE MAILED: 07/02/2004	, 19	

Please find below and/or attached an Office communication concerning this application or proceeding.

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, ,,		Application No		Applicant(s)				
		09/538,543		HUBBARD, EDWARD A.				
Office Action St	ummary	Examiner		Art Unit	<del></del>			
		Kenneth R Coul		2141				
The MAILING DATE of Period for Reply	this communication a	opears on the cove	er sheet with the c	correspondence ad	dress			
A SHORTENED STATUTOR THE MAILING DATE OF THI  - Extensions of time may be available ur after SIX (6) MONTHS from the mailing  - If the period for reply specified above is  - If NO period for reply is specified above  - Failure to reply within the set or extend Any reply received by the Office later tI earned patent term adjustment. See 3	S COMMUNICATION ander the provisions of 37 CFR 1 and the of this communication. It is that the state of the maximum statutory perior ded period for reply will, by statution three months after the mail	136(a). In no event, how ply within the statutory m d will apply and will expire te, cause the application	vever, may a reply be tir inimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed rs will be considered timely the mailing date of this co (D (35 U.S.C. § 133).				
Status								
1) Responsive to commun	nication(s) filed on 26	March 2004.						
2a)⊠ This action is FINAL.	· · · · · · · · · · · · · · · · · · ·							
3)☐ Since this application is	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance w	vith the practice under	Ex parte Quayle,	1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims								
4)⊠ Claim(s) <u>53-73</u> is/are p	ending in the applicati	on.						
4a) Of the above claim(	s) is/are withdr	awn from conside	ration.					
5) Claim(s) is/are a	illowed.							
6)⊠ Claim(s) <u>53-73</u> is/are re								
7) Claim(s) is/are o	•							
8) Claim(s) are sub	eject to restriction and	or election require	ement.					
Application Papers								
9)☐ The specification is obje	ected to by the Examir	ner.						
10) ☐ The drawing(s) filed on		cepted or b) 🗌 ob	-					
Applicant may not reques			<del>-</del>	. ,				
Replacement drawing she	· · ·	•		-	` .			
11)☐ The oath or declaration	is objected to by the i	=xaminer. Note th	e attached Office	ACTION OF TORM PI	O-152.			
Priority under 35 U.S.C. § 119								
12) ☐ Acknowledgment is made	de of a claim for foreig	n priority under 3	5 U.S.C. § 119(a	)-(d) or (f).				
a)	<del>_</del>							
	of the priority docume							
2. Certified copies of					04			
3. Copies of the cer				ed in this National	Stage			
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Attachment(s)								
1) Notice of References Cited (PTO-8		4) [	Interview Summary					
<ul> <li>2)  Notice of Draftsperson's Patent Drag</li> <li>3)  Information Disclosure Statement(s</li> </ul>		s) 5) [	Paper No(s)/Mail D Notice of Informal F	ate Patent Application (PTC	)-152)			
Paper No(s)/Mail Date 1/16/01: 1/4		6)	Other:		· <del></del> /			
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)	Office .	Action Summary	Pa	art of Paper No./Mail Da	ate 20040627			

Application/Control Number: 09/538,543

Art Unit: 2141

#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 2. Claims 53 73 are rejected under 35 U.S.C. 102(b) as being disclosed by London (POPCORN A Paradigm for Global-Computing).
- 2.1 Regarding claim 53, <u>London</u> discloses a method of configuring a distributed parallel processing system, comprising:

providing a server system (Fig. 1);

coupling the server system to a network, the network being connectable to distributed devices (Fig. 1);

providing a notice to the distributed devices of a desire by the server system to configure the distributed parallel processing system through coupling selected ones of the distributed devices through the network, wherein the selected distributed devices are enabled by the server system to perform workloads for the configured distributed parallel processing system (Fig. 1; p. 11, fifth paragraph "the process by which buyers and sellers of CPU time meet and trade");

Art Unit: 2141

providing an incentive to the distributed devices communicating with the server system through the network in response to the notice to participate in the configured distributed parallel processing system (p. 12, third paragraph "One may think of several motivations for one processor to provide CPU-time to another: ... 6. *Lottery*"; p. 26, paragraph 3 "A *computelet* is an object that carries a computation intended for remote execution.");

generating a workload capability factor quantifying workload processing capability for each of the selected distributed services (p. 26, last paragraph through p. 27, first paragraph "the *computation-packet* encapsulates in addition all information regarding the local processing of this computelet: how it gets constructed, the price offered for it, how it is handled locally when the answer arrives, how it is verified, what if the remote computation fails somehow, etc.");

managing the selected distributed devices participation in the configured distributed parallel processing system by the server system utilizing the workload capability factor (p. 26, last paragraph through p. 27, first paragraph).

2.2 Per claim 54, London teaches generating an incentive value for a distributed device in response to a completed workload (p. 12, third paragraph "One may think of several motivations for one processor to provide CPU-time to another: ... 6.

Lottery).

Application/Control Number: 09/538,543

Art Unit: 2141

2.3 Regarding claim 55, London teaches generating an incentive value for a distributed device in response to a workload capability factor generated for the distributed device (p. 13, paragraph 5 "The market determines a fixed price for every type of commodity (JOP or computelet), the **buyers and sellers can either accept this price or seek a market with higher return**."; p. 13, last paragraph "Each buyer and seller have their own trading policy, and the matching of a seller to a buyer must meet the terms of these policies.").

Page 4

- 2.4 Per claim 56, London teaches that the workload capability factor is generated in response to a performance in completing a benchmark workload (p. 12, paragraph 2 "Our basic goods are 'JOPs' Java Operations. ... Each computelet takes some number of JOPs to execute, and the price for the computelet is proportional to the number of JOPs it actually took to compute remotely. This is measured (or actually, approximated) using a simple benchmark we piggyback on each computelet.").
- 2.5 Regarding claim 57, London discloses that the server system schedules and allocates workloads to the selected distributed devices based upon the workload capability factor generated in response to the performance in completing the benchmark workload (p. 12, paragraph 2 "Our basic goods are 'JOPs' Java Operations. ... Each computelet takes some number of JOPs to execute, and the price for the computelet is proportional to the number of JOPs it actually took to compute remotely. This

Page 5

Application/Control Number: 09/538,543

Art Unit: 2141

is measured (or actually, approximated) using a **simple benchmark we piggyback on each computelet**.").

- 2.6 Per claim 58, London teaches that the workload capability factor is generated in response to a workload completed by one of the selected distributed devices for the configured distributed parallel processing system (p. 12, third paragraph "One may think of several motivations for one processor to provide CPU-time to another: ... 6.

  Lottery"; p. 26, paragraph 3 "A computelet is an object that carries a computation intended for remote execution."; p. 12, paragraph 2 "Our basic goods are 'JOPs' Java Operations. ... Each computelet takes some number of JOPs to execute, and the price for the computelet is proportional to the number of JOPs it actually took to compute remotely.").
- 2.7 Regarding claim 59, London discloses that the workload capability factor is utilized to determine an entry value to a sweepstakes (p. 12, third paragraph "One may think of several motivations for one processor to provide CPU-time to another: ... 6. *Lottery*"; p. 26, paragraph 3 "A *computelet* is an object that carries a computation intended for remote execution."; p. 12, paragraph 2 "Our basic goods are 'JOPs' Java Operations. ... Each computelet takes some number of JOPs to execute, and the price for the computelet is proportional to the number of JOPs it actually took to compute remotely.").

Application/Control Number: 09/538,543

Art Unit: 2141

Page 6

- 2.8 Per claim 60, London teaches that the sweepstakes entry value increases for an increased workload capability factor of the selected distributed device (p. 12, third paragraph "One may think of several motivations for one processor to provide CPU-time to another: ... 6. *Lottery*"; p. 26, paragraph 3 "A *computelet* is an object that carries a computation intended for remote execution."; p. 12, paragraph 2 "Our basic goods are 'JOPs' Java Operations. ... Each computelet takes some number of JOPs to execute, and the price for the computelet is proportional to the number of JOPs it actually took to compute remotely.").
- 2.9 Regarding claim 61, London discloses the step of transferring a software agent from the server system to the selected distributed devices, wherein the software agent manages a workload performed by the selected distributed devices (p. 38, paragraph 6 "software agents"; p. 13, last paragraph "Each buyer and seller have their own trading policy, and the matching of a seller to a buyer must meet the terms of these policies.").
- 2.10 Per claim 62, London teaches that the software agent further provides information to a user about an increase in an incentive value offered for an increase in the workload capability factor of the selected distributed device (p. 38, paragraph 6 "software agents"; p. 13, last paragraph "Each buyer and seller have their own trading policy, and the matching of a seller to a buyer must meet the terms of these policies.").

Art Unit: 2141

2.11 Regarding claims 63 – 73, the rejection of claims 53 – 62 under 35 USC 102(b) (paragraphs 2.1 – 2.10 above) apply.

Page 7

In addition, London the storage devices that are necessary to implement the system of London are inherent in the London reference.

## Response to Arguments

3. Applicant's arguments filed 3/26/2004 have been fully considered but they are not persuasive.

Applicant states that Examiner has failed to specifically point out where in London the invention of claims 53 – 73 is found.

A detailed rejection that specifically points out the limitations is found above.

#### Conclusion

4. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

Art Unit: 2141

,543 Page 8

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth R Coulter whose telephone number is 703 305-8447. The examiner can normally be reached on 5 4 9.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rupal Dharia can be reached on 703 305-4003. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

krc

KENNETH R. COULTER FRIMARY EXAMINER